

App. No. 10/529,536
Office Action Dated March 19, 2008

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Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Claim 1 is amended.

Claims 13 and 14 are new.

Listing of Claims:

1. (Currently Amended) A two-component developer comprising:

a carrier for electrophotography in which a surface of at least a core material is coated with a resin; and

a toner,

wherein the coating resin contains a fluorine modified silicone resin and an aminosilane coupling agent,

wherein the aminosilane coupling agent is included in a range of 5 to 40 weight parts with respect to 100 weight parts of the coating resin,

wherein the fluorine modified silicone resin is a crosslinked fluorine modified silicone resin obtained by reacting an organic silicon compound containing a perfluoro alkyl group with polyorganosiloxane within a range of 3 to 20 weight parts with respect to 100 weight parts of the polyorganosiloxane, and

wherein the toner contains (1) a polyester resin obtained by a condensation polymerization between an alcohol component and a carboxylic acid component and (2) wax, and is charged negatively.

2. (Previously presented) The two-component developer according to claim 1,

wherein the resin coating layer further comprises conductive microparticles within a range of 1 to 15 weight parts with respect to 100 weight parts of the coating resin.

3. (Canceled)

4. (Previously presented) The two-component developer according to claim 1,

App. No. 10/529,536
Office Action Dated March 19, 2008

wherein the proportion of the coating resin is within a range of 0.1 to 5.0 weight parts with respect to 100 weight parts of the carrier core material.

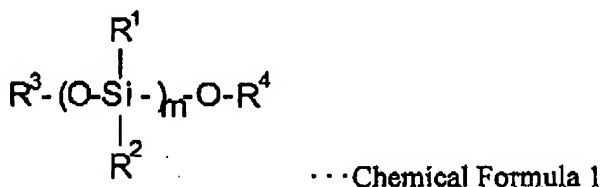
5-7. (Canceled)

8. (Previously presented) The two-component developer according to claim 1,

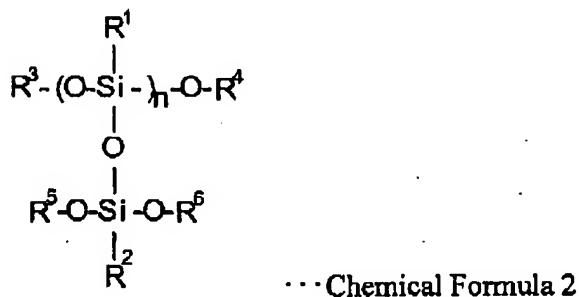
wherein the organic silicon compound containing a perfluoro alkyl group is at least one compound selected from $\text{CF}_3\text{CH}_2\text{CH}_2\text{Si}(\text{OCH}_3)_3$, $\text{C}_4\text{F}_9\text{CH}_2\text{CH}_2\text{Si}(\text{CH}_3)(\text{OCH}_3)_2$, $\text{C}_8\text{F}_{17}\text{CH}_2\text{CH}_2\text{Si}(\text{OCH}_3)_3$, $\text{C}_8\text{F}_{17}\text{CH}_2\text{CH}_2\text{Si}(\text{OC}_2\text{H}_5)_3$, and $(\text{CF}_3)_2\text{CF}(\text{CF}_2)_8\text{CH}_2\text{CH}_2\text{Si}(\text{OCH}_3)_3$.

9. (Previously presented) The two-component developer according to claim 1,

wherein the polyorganosiloxane is at least one selected from Chemical Formulas 1 and 2 below:



where R^1 and R^2 denote a hydrogen atom, a halogen atom, a hydroxy group, a methoxy group, or a C1 to C4 alkyl group or phenyl group, R^3 and R^4 denote a C1 to C4 alkyl group or phenyl group, and m denotes an average polymerization degree and is a positive integer,



where R^1 and R^2 denote a hydrogen atom, a halogen atom, a hydroxy group, a methoxy group, or a C1 to C4 alkyl group or phenyl group, R^3 , R^4 , R^5 and R^6 denote a C1 to C4 alkyl group or phenyl group, and n denotes an average polymerization degree and is a positive integer.

App. No. 10/529,536
Office Action Dated March 19, 2008

10. (Canceled)
11. (Previously presented) The two-component developer according to claim 1, wherein the aminosilane coupling agent is at least one selected from γ -(2-aminoethyl)aminopropyltrimethoxysilane, γ -(2-aminoethyl)aminopropylmethyldimethoxysilane, and octadecylmethyl[3-(trimethoxysilyl)propyl]ammonium chloride.
12. (Previously presented) The two-component developer according to claim 1, wherein an amine of the aminosilane coupling agent is a primary amine.
13. (New) The two-component developer according to claim 1, wherein the alcohol component is bisphenol A propylene oxide additive.
14. (New) The two-component developer according to claim 1, wherein the carboxylic acid component is at least one selected from the group consisting of terephthalic acid, trimellitic acid, succinic acid and fumaric acid.